Diameter Domain and Arbitrary Mask Filters

draft-bertz-dime-domainmasks-00

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DNS-Filters

Yet another extension of RFC 5777 for two purposes

- Add Query Domains to Filters
  - For Child Protections, Rating, etc. Operators side load flat files in production systems
  - Allows for a more dynamic, reactive solution
  - Uses the DNS Query Name (Qname) Format
  - NOT intended to help one break into DNSSEC connections (you need to be authorized to see the traffic here)
  - DNS-Filters ::= < AVP Header: TBD1 >
                        1*{ <QNAMES> }
                         * [AVP]
  - Usage – Added to the RFC 5777 Classifier

SDN Related Filters

Yet another extension of RFC 5777 for two purposes

- Adds arbitrary masks for IP based and Flow-Label base filters
  - Aligns masks to what SDN technology can do
  - Permits improved matching, e.g. 0.0.5.0 – any subnet whose 3 octet is 5
  - We still recommend using prefixes when you have a prefix!
- AVPs
  - Flow-Label AVP Uint32 (but is 20 bits) (Why don't we have this already?)
  - Flow-Label-Mask-Pattern AVP (OctetString of binary mask)
  - IP-Address-Mask-Pattern AVP (OctetString of binary mask)
- Usage – Added to RFC 5777 To-Spec and From-Spec

Next Steps

- Have received a few (private) reviews with feedback but no mail list responses
  - Please provide feedback!
- Call for WG adoption

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